

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/646,301
Source: O/PE
Date Processed by STIC: 8/28/2003

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

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- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

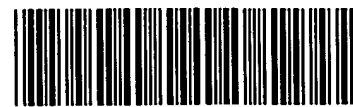
Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 04/24/2003



OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/646,301

DATE: 08/28/2003

TIME: 14:39:03

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\08282003\J646301.raw

3 <110> APPLICANT: Altmann, Scott W
 4 Wang, Luquan
 5 Graziano, Michael
 6 Murgolo, Nick
 8 Davis, Harry
 10 <120> TITLE OF INVENTION: NPC1L1 (NPC3) AND METHODS OF USE THEREOF
 12 <130> FILE REFERENCE: JB01603-K1-US
 W--> 13 <140> CURRENT APPLICATION NUMBER:
 15 <141> CURRENT FILING DATE: 2003-08-22
 17 <150> PRIOR APPLICATION NUMBER: 60/397,442
 19 <151> PRIOR FILING DATE: 2002-07-19
 21 <150> PRIOR APPLICATION NUMBER: 10/621,758
 23 <151> PRIOR FILING DATE: 2003-07-17
 W--> 24 <160> NUMBER OF SEQ ID: 50
 26 <170> SOFTWARE: PatentIn version 3.1

ERRORED SEQUENCES

1795 <210> SEQ ID NO: 10 *see p.2*
 1796 <211> LENGTH: 3993
 1797 <212> TYPE: DNA
 1798 <213> ORGANISM: Rattus sp. *see p.5 for error explanation*
 1800 <400> SEQUENCE: 10

E--> 1801 atggcncgncg cncggytngg rttggytntn tgggcnrtnt tnytnwsnnc ngcncargcn	60	<i>This row is a sample of errors throughout the sequence.</i>
E--> 1802 garytntaya cncncnaarca ygargcnggn gtntgyacnt tytaygarga rtgyggnaar	120	
E--> 1803 aayccngary tnwsnggngg nytnacnwsn ytnwsnaayg tnwsntgyyt nwsnaayacn	180	
E--> 1804 ccngcnmgnc aygtnacngg ngarcayytn gcnytnytnc armgnathtg yccnmgnyt	240	
E--> 1805 tayaayggnc cnaayacnac nttygcntgy tgywsnacna arcarytnyt nwsnytngar	300	
E--> 1806 wsnwsnatgw snathacnaa rgcnytntn acnmgntgyt cngcntgyws ngayaaayty	360	
E--> 1807 gtnwsnytn c aytgycayaa yacntgywsn ccngaycarw snytnttyat haaygtnacn	420	
E--> 1808 mgngtngtng armngngngc ngnggarccn ccngcngtng tngcntayga rgcnttytay	480	
E--> 1809 carmgnwsnt tygcngaraa rgcntaygar wsntgywsnc argtnmgntat hccngcngcn	540	
E--> 1810 gcnwsnytn cngtnggnws natgtgyggn gtntayggngw sngcnytnng yaaygcncar	600	
E--> 1811 mgntggyttna ayttycargg ngayacnggn aayggnytn cncnytnnga yathacntty	660	
E--> 1812 cayytnytng arccnggnca rgcnynccn gayggnathc arccnytnaa yggnaarath	720	
E--> 1813 gcncntgya aygarwsna rggngaygay wsngcngtnt gywsntgyca rgaytgygcn	780	
E--> 1814 gcnwsntgyt cngtnathcc nccncngar gcnytnmgnc cnwsnttyta yatggngmgn	840	
E--> 1815 atgcenggnt ggytngcnyt nathathath ttyacngcng tnttygtnt nytnwsngcn	900	
E--> 1816 gtnytngtnm gnytnmgnt ngtnwsnaay mgnaayaara ayaargenga rggncncar	960	
E--> 1817 gargcncna arytnccna yaarcayaar ytnwsnccnc ayacnathyt nggnmgntty	1020	
E--> 1818 ttycaraayt ggggnacnmg ngtnngcnwsn tggcnytna cngtnytngc nytnwsntty	1080	
E--> 1819 athgtngtna thgcnytnge ngcnggnytn acnttyathg arytnacnac ngaycngntn	1140	

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E--> 1820 garytntggw sngcncncaa rwsncargcn mgnaargara arwsnttyca ygaygarcay 1200
E--> 1821 ttyggncnt tyttymgnac naaycarath ttygtnacng cnmgnaaymg nwsnwsntay 1260
E--> 1822 aartaygayw snytnytnyt nggnwsnaar aayttywsng gnathytngws nytnngaytty 1320
E--> 1823 ytnytngary tnytngaryt ncargarmgn ytnmgncayy tncargtntg gwsnccngar 1380
E--> 1824 gcngarmgna ayathwsnyt ncargayath tgytaygcnc cnytnaaycc ntayaayacn 1440
E--> 1825 wsnytnwsng aytgytgygt naaywsnytn ytncartayt tycaraayaa ymgnaacnytn 1500
E--> 1826 ytnatgytna cngcnaayca racnytnaay ggncaracnw snytngtnga ytggaargay 1560
E--> 1827 cayttyytn tnytygycnaa ygcncnnytn acnttyaarg aygnacnws nytnngcnytn 1620
E--> 1828 wsntgyatgg cngaytaygg ngcncngtn ttyccttyy tngcngtngg nggntaycar 1680
E--> 1829 ggnacngayt aywsngargc ngargcnytn athathacnt tywsnytnaa yaaytayccn 1740
E--> 1830 gcngaygayc cnmgnatggc ncargcnaar ytntgggarg argcnttyyt naargaratg 1800
E--> 1831 garwsnttyc armgnaayac nwsngayaar tycargtng cnttywsngc ngarmgnwsn 1860
E--> 1832 ytnargayg arathaaymg nacnacnath cargaytnc cngtnttygc ngtnwsntay 1920
E--> 1833 athathgtnt tytyntayt hwsnytnngc ytnngnwsnt aywsnmgtg ywsnmngtn 1980
E--> 1834 gcngtngarw snaargcnac nytnngnytn ggngngtng thgtngtnt nggngcngtn 2040
E--> 1835 ytnngcngcna tgggnttyta ywsntayytn ggngtnccnw snwsnytngt nathathcar 2100
E--> 1836 gtngtnccnt tytyngtnt ngcngtngg gcngayaaya thtatytht ygtnytngar 2160
E--> 1837 taycarmgny tnccnmgnat gccngngarg carmgngarg cncayathgg nmgnacnytn 2220
E--> 1838 ggnwsngtng cncnwsnat gytnytnngt wsnytnwsng argcnathgt ytytytytn 2280
E--> 1839 ggngcnytna cncnatgcc ngcngtnmgn acnttygcn tncnwsngg nytnngcnath 2340
E--> 1840 athytnngay tytyntnca ratgaengcn tnytnwsnyt tnytnwsnyt ngaywsnaar 2400
E--> 1841 mgncargarg cnwsnmgncc ngaygtnt ytytytyw snacnmgnaa rytncnccn 2460
E--> 1842 cnaargara argarggnytn nytnytnmgn ttytytmgna arathtaygc nccnttyytn 2520
E--> 1843 ytncaymgnt tyathmgnc ngtnngtnatg ytnytnntty tncnytnntt yggngcnaay 2580
E--> 1844 ytnataytna tgtgyaayat haaygtngg ytnngaycarg arytnngcnytn nccnaargay 2640
E--> 1845 wsntayytna thgaytaytt ytynttyytn aaymgntayy tngargtngg nccncngtn 2700
E--> 1846 taytytgtna cnacnwsngg nttyaaytyt wsnwsngarg cnggnatgaa ygcnaentgy 2760
E--> 1847 wsnwsngcng gntgyaarws nttywsnytn acncaraara thcartaygc nwsngartty 2820
E--> 1848 ccngaycarw sntaygtngc nathgcnngc wsnwsntggg tngaygaytt yathgaytg 2880
E--> 1849 ytnacnccnw snwsnwsntg ytgymgnytn tayathmgng gncncayaa rgaygartty 2940
E--> 1850 tgyccnwsna cngayacnws nttyaaytyt ytnaaraayt gyatgaaymg nacnytnngn 3000
E--> 1851 ccngtnmgn cncngcnga rcarttycay aartayytn cngtggtyyt naaygayccn 3060
E--> 1852 cnaayathm gntgyccnaa rgnggnytn gcngcntaym gnacnwsngt naaytnwsn 3120
E--> 1853 wngayggnc argtnathgc nwsncartty atggcntayc ayaarccnytn nmgnaaywsn 3180
E--> 1854 cargayttya cngargcnytn nmngcnwsn mgnytnytn cngcnaayat hacngcngay 3240
E--> 1855 ytnmgnaarg tnccnggnac ngayccnaay ttygargtnt tyccntayac nathwsnaay 3300
E--> 1856 gtnttytayc arcartayt nacngtnytn ccngarggna thtyacnytn ngcnytnng 3360
E--> 1857 ttygtncna cnttygtngt ntgytayytn ytnytnngg tngaytggt ywsnggnath 3420
E--> 1858 ytnaayytny tnwsnathat hatgathytn gtngayacna thgnytnat ggngtntgg 3480
E--> 1859 ggnathwsnt ayaaygcngt nwsnytnath aayytnngt cngcngtngg natgwsngtn 3540
E--> 1860 garttygtnw sncaayathac nmgnwsntty gcngtnwsna cnaarccnac nmgnytngar 3600
E--> 1861 mgngcnaarg aygcnaengt nttyatggg wngcngtnt tygngnggt ngcnatgacn 3660
E--> 1862 aaytyccng gnathytnat hytnngntty gcncargcnc arytnathca rathtytyt 3720
E--> 1863 ttymgnytna ayytnytnat hacnytnytn ggnytnytn ayggnytngt nttyytnccn 3780
E--> 1864 gtngtnytnw sntayytnng nccngaygt aaycargcny tngtncarga rgaraarytn 3840
E--> 1865 gcnwsngarg cngcngtngc nccngarccn wsntgyccnc artayccnws nccngcngay 3900
E--> 1866 gcngaygcna aygtnaayta yggnttygcn ccngarytn cncayggngc naaygcngcn 3960
E--> 1867 mgnwsnwsny tnccnaarws ngaycaraar tty 3993

```

2570 <210> SEQ ID NO: 13

RAW SEQUENCE LISTING

DATE: 08/28/2003

PATENT APPLICATION: US/10/646,301

TIME: 14:39:03

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\08282003\J646301.raw

2571 <211> LENGTH: 3999

2572 <212> TYPE: DNA

2573 <213> ORGANISM: Mus sp.

2575 <400> SEQUENCE: 13

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E--> 2578 aayccngary tnwsngnggg nytnacnwsn ytnwsnaaya thwsntgyyt nwsnaayacn      180
E--> 2579 ccngcnmgnc aygtnacngg ngaycayytn gcnytnytn c armgngtntg yccnmgnytn      240
E--> 2580 tayaayggnc cnaaygayac ntaygcntgy tgywsnacna arcarytngt nwsnytngay      300
E--> 2581 wsnwsnytnw snathacnaa rgcnynytn acnmgtgyc cngcntgyws ngaraaytty      360
E--> 2582 gtnwsnathc aytgycaaya yacntgywsn ccngaycarw snyntttyat haaygtnacn      420
E--> 2583 mgngtngtnc armngaycc nggncarytn ccngcngtng tngcntayga rgcnttytay      480
E--> 2584 carmgnwsnt tygcngaraa rgcntaygar wsntgywsnm gngtnmgntat hccngcngcn      540
E--> 2585 gcnwsnytn gngtnggngws natgtgyggg gtntayggngw sngcnytny yaaygcncar      600
E--> 2586 mgntggyttna ayttycargg ngayacnggn aayggnytn gncncnytna yathacntty      660
E--> 2587 cayytnytn arcngngna rgcnynytn gayggnatga arcnytna yggnaarath      720
E--> 2588 acncntgya aygarwsna rggngargay wsngcngcnt gywsntgyca rgaytgygc      780
E--> 2589 gcnwsntgy cngtnathcc nccncncnc gcnytnmgnc cnsnttyta yatggngmg      840
E--> 2590 atgcengnt ggytngcny nathathath ttyacngcng tnttygtnt nytnwsngtn      900
E--> 2591 gtnytngtnt ayytnmgngt ngcnwsnaay mgnaayaara ayaaracngc nggnwsncar      960
E--> 2592 gargcncna ayytnccnmg naarmgmngn ttywsncnc ayacngtnt nggngmngty      1020
E--> 2593 ttygarwsnt ggggnacnmg ngtngcnwsn tggcnytna cngtntngc nytnwsntty      1080
E--> 2594 athgtngtna thgcnynws ngtnggnytn acnttyathg arytnacnac ngaycngtn      1140
E--> 2595 garytntggw sngcncnaa rwsncargcn mgnaargara argcnttyca ygaygarcay      1200
E--> 2596 ttyggncnt tyttymgnac naaycarath ttygtnacng cnaaraaymg nwsnwsntay      1260
E--> 2597 aartaygayw snytnytny nggncnaar aayttywsg gnathytnws nytngayytn      1320
E--> 2598 ytnccargary tnytngaryt ncargarmgn ytnmgncay tncargtntg gwsncaygar      1380
E--> 2599 gcncarmgna ayathwsnt ncargayath tgytaygcnc cnytnaaycc ncayaayacn      1440
E--> 2600 wsnytnacng aytgytgyt naaywsnytn ytncartayt tycaraayaa ycayacnytn      1500
E--> 2601 ytnytnytna cngcnaayca racnytnaay ggncaracnw snytngtna ytggaargay      1560
E--> 2602 cayttyytn aytygcnac ygcncnytn acntayaarg ayggnacngc nytnngcnytn      1620
E--> 2603 wsntgyathg cngaytaygg ngcncngtn ttyccttyy tngcngtng nggntaycar      1680
E--> 2604 ggnacngayt aywsngargc ngargcnytn athathacnt tywsnathaa yaaytayccn      1740
E--> 2605 gcngaygayc cngmngatggc ncaygcnar ytntgggarg argcnttyy naargaratg      1800
E--> 2606 carwsnttyc armgnwsnac ngcngayaar ttycarathg cnttywsngc ngarmgnwsn      1860
E--> 2607 ytnargayg arathaaymg nacnacnath cargayytn cngtnttygc nathwsntay      1920
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E--> 2610 gtnngcngcna tgggnttyta ywsntayytn ggngtncnw snwsnytngt nathathcar      2100
E--> 2611 gtngtncnt tytyngntny ngcngtngg gngayaaya thttathtt ygtntngar      2160
E--> 2612 taycarmgny tncnmngnat gccngngarg carmgngarg cncayathgg nmgnacnytn      2220
E--> 2613 ggnwsngtng cncnwsnat gytnytnytn wsnytnwsng argcnathg ytytytytn      2280
E--> 2614 gngcnytna cnwsnatgcc ngcngtnmg acnttygcn tncnwsngg nytnngcnath      2340
E--> 2615 athtygayt tytyntnca ratgaengc ttygtngcny tnytnwsnytn ngaywsnaar      2400
E--> 2616 mgncargarg cnwsnmngnc ngaygtngtn tgytgytyw snwsnmgnaa yytnccncnc      2460
E--> 2617 ccnaarcara argarggnytn nytnytnytn ttytytmgna arathayac nccnttyytn      2520
E--> 2618 ytncaymgnt tyathmgnc ngtngntnytn ytnytnntty tngntnttyt yggngcnaay      2580
E--> 2619 ytnayytna tgytaayat hwsngtngg ytngaycarg ayytngcnytn nccnaargay      2640
E--> 2620 wsntayytna thgaytayt yytnnttyytn aaymgntay tngargtngg nccncngtn      2700

```

same

type

1 errors

as
seq 10n/s
need to
beexplained
in2207-2237
section

see p. 4

RAW SEQUENCE LISTING

DATE: 08/28/2003

PATENT APPLICATION: US/10/646,301

TIME: 14:39:03

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\08282003\J646301.raw

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E--> 2621 tayttygaya cnacnwsngg ntayaaytty wsnacngarg cnggnatgaa ygcnathtgy 2760
E--> 2622 wsnwsngcng gntgygarws nttywsnytn acncaraara thcartaygc nwsngartty 2820
E--> 2623 ccnaaycarw sntaygtngc nathgcngcn wsnwsntggg tngaygaytt yathgaytgg 2880
E--> 2624 ytnacnccnw snwsnwsntg ytgymgnath tayacnmngn gncncayaa rgaygartty 2940
E--> 2625 tgyccnwsna cngayacnws nttyaaytgy ytnaaraayt gyatgaaymg nacnytnngn 3000
E--> 2626 ccngtnmgnc cnacnacnga rcarttycay aartayytnc cntggttyyt naaygayacn 3060
E--> 2627 ccnaayathm gntgyccnaa rggnggnytn gcngcntaym gnacnwsngt naayytwnsn 3120
E--> 2628 wsngayggnc arathathgc nwsncartty atggcntayc ayaarccnyt nmgnaywsn 3180
E--> 2629 cargayttya cngargcnyt nmngncnwsn mgnytnytn gngcnaayat hacngcngar 3240
E--> 2630 ytnmgnaarg tnccnggnac ngayccnaay ttygargtnt tyccntayac nathwsnaay 3300
E--> 2631 gtnttytayc arcartayyt nacngtnytn ccngarggna thttyacnyt ngcnytnngy 3360
E--> 2632 ttygtncna cnttygtngt ntgytayyt ytnytnngny tngayathmg nwsnggnath 3420
E--> 2633 ytnaayytny tnwsnathat hatgathytn gtngayacna thggnytnat ggngntngg 3480
E--> 2634 ggnathwsnt ayaaygcngt nwsnytnath aayytngtna cngcngtngg natgwsngtn 3540
E--> 2635 garttygtnw sncaayathac nmgnwsntty gcngtnwsna cnaarccnac nmgnytngar 3600
E--> 2636 mgngcnaarg aygcnacnat httyatggg wsnngcngtnt tygcngnggt ngcnatgacn 3660
E--> 2637 aayttyccng gnathytnat hytnngntty gcncargcnc arytnathca rathttytty 3720
E--> 2638 ttymgnytna ayytnytnat hacnytnytn ggnytnytn ayggnytngt nttytnccn 3780
E--> 2639 gtngtnytnw sntayytngg nccngaygt n aycargcny tngtnytna rgaraarytn 3840
E--> 2640 gcnacngarg cngcnatggt nwsngarccn wsntgyccnc artayccntt yccngcngay 3900
E--> 2641 gcnaayacnw sngaytaygt naaytayggg ttyaayccng arttyathcc ngarathaay 3960
E--> 2642 gcngcnwsnw snwsnytncc naarwsngay caraartty 3999

```

same error

VARIABLE LOCATION SUMMARY
PATENT APPLICATION: US/10/646,301

DATE: 08/28/2003
TIME: 14:39:04

Input Set : A:\seqlist.txt
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Erin Eplan

Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of <220> to <223> is MANDATORY if n's or Xaa's are present.

in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:10; N Pos. 6,9,12,18,21,27,30,36,39,42,45,48,51,54,60,66,72,75,87,90
Seq#:10; N Pos. 93,99,117,126,132,135,138,141,144,147,150,153,156,162,165
Seq#:10; N Pos. 171,174,180,183,186,189,195,198,201,210,213,216,219,225,234
Seq#:10; N Pos. 237,240,249,252,258,261,267,276,279,288,291,294,297,303,306
Seq#:10; N Pos. 312,318,324,327,330,333,336,342,345,351,363,366,369,384,390
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Seq#:10; N Pos. 687,690,696,705,708,714,723,726,738,744,753,756,759,765,780
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Seq#:10; N Pos. 1362,1368,1374,1377,1383,1389,1398,1401,1419,1422,1425,1431
Seq#:10; N Pos. 1440,1443,1446,1449,1461,1467,1470,1473,1494,1497,1500,1503
Seq#:10; N Pos. 1509,1512,1515,1524,1527,1533,1539,1542,1545,1548,1569,1578
Seq#:10; N Pos. 1584,1587,1590,1593,1605,1608,1611,1614,1617,1620,1623,1632
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Seq#:10; N Pos. 2238,2244,2247,2253,2256,2259,2265,2280,2283,2286,2289,2292
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Seq#:10; N Pos. 2577,2583,2589,2607,2610,2613,2625,2628,2631,2634,2643,2649
Seq#:10; N Pos. 2664,2670,2676,2682,2688,2691,2694,2697,2700,2709,2712,2715
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VARIABLE LOCATION SUMMARY

DATE: 08/28/2003

PATENT APPLICATION: US/10/646,301

TIME: 14:39:04

Input Set : A:\seqlist.txt

Output Set: N:\CRF4\08282003\J646301.raw

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VERIFICATION SUMMARY

DATE: 08/28/2003

PATENT APPLICATION: US/10/646,301

TIME: 14:39:04

Input Set : A:\seqlist.txt

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L:1801 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:10
M:340 Repeated in SeqNo=10
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L:2576 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:13
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